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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,451	03/25/2004	D'Miles Salmon	ZEPH-00201	1772
28960 HAVERSTOC	7590 05/04/2007 CK & OWENS LLP	EXAMINER		
162 NORTH V	VOLFE ROAD	STOCK JR, GORDON J		
SUNNYVALE	E, CA 94086		ART UNIT	PAPER NUMBER
			2877	
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			05/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
057	10/811,451	SALMON, D'MILES				
Office Action Summary	Examiner	Art Unit				
	Gordon J. Stock	2877				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 10 A _I	oril 2007					
·	action is non-final.	·				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
		•				
Disposition of Claims		•				
4) Claim(s) 1-20 and 22-27 is/are pending in the a		·				
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) <u>10-20,22-24,26 and 27</u> is/are allowed	•					
6)⊠ Claim(s) <u>1-9 and 25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on 25 August 2006 is/are:		to by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	,					
1. Certified copies of the priority document	s have been received.	•				
2. Certified copies of the priority document		ion No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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·						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>20070410</u> . 6)						

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DETAILED ACTION

1. The Amendment received on January 31, 2007 has been entered into the record.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on April 10, 2007 has been considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, 5, 6, 8, 9, 25 are rejected under 35 U.S.C. 102(a) as being anticipated by Hart (6,375,579)—previously cited.

As for claim 1, Hart discloses a golf swing analysis system that is a positioning and alignment device (col. 4, lines 60-65) comprising: a first transmitter and a first receiver (Fig. 2: 16 and 34); a second transmitter and a second receiver (Fig. 2: 20, 32); an indicator, display unit (Fig. 2: 46). As for the recitations, "for transmitting positioning signals to a target object ... in a communication path between the positioning object and the target object' and 'for transmitting the alignment signals from the target object and for receiving ... in the communication path between the positioning object and the target object' and 'for indicating when the positioning object ... towards the target object' it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed

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apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

As for claim 2, Hart discloses everything as above (see claim 1). In addition, he discloses the first transmitter is a laser (Fig. 2: 16) and the second receiver is a photosensor for detecting the laser light (Fig. 2: 20). As for the recitations 'for generating laser light positioning signals' and 'for detecting the laser light positioning signals' it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

As for claim 5, Hart discloses everything as above (see claim 1). In addition, he discloses the second transmitter is a radio frequency generator (Fig. 2: 32) and the first receiver is a radio frequency receiver (Fig. 2: 34). As for the recitations 'for generating radio alignment signals' and 'for detecting the radio frequency alignment signals' it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

As for claim 6, Hart discloses everything as above (see claim 1). In addition, he discloses the indicator is a display element (Fig. 2: 46).

As for **claim 8**, Hart discloses everything as above (see **claim 1**). In addition, he discloses the first transmitter and the first receiver are configured to detachably couple to the positioning object (col. 8, lines 45-46) when the first transmitter and first receiver are considered the sensor and rf transmitter of the sensor module (Fig. 1: 44 and Fig. 2: 20 and 32).

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As for **claim 9**, Hart discloses everything as above (see **claim 1**). In addition, he discloses the second transmitter and the second receiver are configured to be removably positioned near the target object, the golf ball (col. 8, lines 48-50) when the second transmitter and second receiver are considered the laser and rf transmitter of the base unit (Fig. 1: 42 and Fig. 2: 16 and 34).

As for claim 25, Hart discloses a system for positioning and alignment (col. 4, lines 60-65); comprising means for providing two way communication path between the object and target (Fig. 1: target comprising 38 and 18 with two communication: Fig. 2: 18 and 33); a positioning unit comprising a first transmitter, first receiver, and an indicator, a counter that indicates the sensors passing into laser field (Fig. 2: 10, 20, 32, 26); a target unit comprising a second transmitter and second receiver (Fig. 2: 42, 16, 34); wherein, the first and second receiver with first and second transmitter provide two-way communication (Fig. 2: 18 and 33); wherein the indicator provides an indication when the object, the golf club, is moved laterally in or out of a trajectory, the laser beam plane, along the two-way communication path (col. 4, lines 50-54). As for the recitations 'for monitoring the alignment of an object with a target,' 'for detachably coupling to the object,' 'for positioning near or at the target' and 'for monitoring the alignment of object' it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hart (6,375,579)-previously cited.

As for claim 3, Hart discloses everything as above (see claim 2). In addition, he mentions an optical configuration (Fig. 6). He does not explicitly mention an optical configuration that projects the laser light into an elongated laser beam. However, he states that the laser source provides a plane shaped laser beam (col. 4, lines 5-6). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made that Hart's system had an optical configuration in order to project the laser beam into an expanded plane shape.

Though the Examiner treated the recitation 'for projecting the laser light into an elongated laser beam' positively, this recitation is an intended use. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

7. Claims 4 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hart (6,375,579)-previously cited in view of Goszyk (6,095,928)-previously cited.

As for **claim 4**, Hart discloses everything as above (see **claim 3**). And he mentions a second optical configuration (Fig. 3). However, he is silent concerning a second optical

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configuration that filters background light from the second receiver. However, Goszyk in a three-dimensional object path tracking system teaches a high-pass filter for selectively detecting the light of the system rather than ambient light and a spatial filter (col. 6, lines 1-15; col. 10, lines 40-45). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have a second optical configuration such as a spatial filter and a high pass filter in order to have the sensor only detect light from the laser in the base unit without ambient light from the background to increase the signal to noise ratio.

Though the Examiner treated the recitation 'for filtering background light from the second receiver' positively, this recitation is an intended use. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

As for claim 7, Hart discloses everything as above (see claim 6). He does not state that the display element generates light. However, Goszyk in a three-dimensional object path tracking system teaches having a display element generating light (col. 4, lines 18-20). Therefore, it would be obvious to one of ordinary skill in the art at the time the invention was made to have the display element generate light in order to make the data accumulated visible to a viewer.

Allowable Subject Matter

8. Claims 10-20, 22-24, 26 and 27 are allowed.

As to **claim 10**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a system for tracking a trajectory of an object relative to a target area means

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for generating alignment signals and means for detecting the alignment signals at the object, in combination with the rest of the limitations of claims 10-19.

As to **claim 20**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a positioning and alignment system 'the positioning unit is configured to illuminate light when the target unit communicates the alignment signal to the positioning unit,' in combination with the rest of the limitations of **claims 20, 22-24**.

As to **claim 26**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a positioning and alignment system 'the positioning unit comprises an optical transmitter' in combination with the rest of the limitations of **claim 26**.

As to **claim 27**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a positioning and alignment system 'the target unit comprises a radio transmitter' in combination with the rest of the limitations of **claim 27**.

Response to Arguments

9. Applicant's arguments filed January 31, 2007 have been fully considered but they are not persuasive (specifically, arguments regarding rejections under 35 U.S.C. 102(a) to claims 1, 2, 5, 6, 8, 9, and 25 on pages 7-8 of Remarks). In regards to the argument concerning claim 1 that Hart does not teach the particular device, Examiner disagrees. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a device 'that indicates lateral alignment as a positioning object is moved through a trajectory in the communication path between the positioning object and the target object and towards the target object') are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations

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from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). 'For indicating when the positioning object and the target ... and towards the target object' is an intended use. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex Parte Masham, 2 USPQ F.2d 1647 (1987).

In regards to the argument concerning claim 25 that Hart does not recite an indicator providing an indication when the object is laterally moved in or out of trajectory along the two way communication path, Examiner disagrees. Hart discloses an indicator which provides an indication when the object, the golf club, is moved laterally in or out of a trajectory, the laser beam plane, along the two-way communication path (col. 4, lines 50-54).

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

- 1) Contain either a statement "DRAFT" or "PROPOSED AMENDMENT" on the fax cover sheet; and
 - 2) Should be unsigned by the attorney or agent.

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (571) 273-8300

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (571) 272-2431.

The examiner can normally be reached on Monday-Friday, 10:00 a.m. - 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr., can be reached at 571-272-2800 ext 77.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private Pair system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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gs April 30, 2007

Gregory J. Toatley, Jr.
Supervisory Patent Examiner
Art Unit 2877